at1110paper_practice_test (v31)

1. Solve the equation.
$$7x^2 - 15x - 50 \;=\; 4x^2 - 5x - 2$$

2. Expand the following expression into standard form.
$$(8x + 9)(7x - 3)$$

3. Solve the equation.
$$(3x + 2)(7x - 6) \;=\; 0$$

4. Expand the following expression into standard form.
$$(5x + 6)(5x - 6)$$

5. Factor the expression.
$$16x^2 - 9$$

6. Expand the following expression into standard form.
$$(5x + 6)^2$$

7. Solve the equation with factoring by grouping.
$$10x^2 + 12x - 15x - 18 \; = \; 0$$

8. Factor the expression.
$$x^2 - 7x + 12$$